

## Claims

1. A method for assaying the presence and/or amount of a glycosylated protein in a sample, wherein the sample is treated with protease, followed by treatment with an oxidase having an activity to produce hydrogen peroxide upon reacting with a glycosylated peptide to assay the presence and/or amount of a generated product or consumed substance by said reaction.
2. The method for assaying the presence and/or amount of a glycosylated protein according to claim 1, wherein the protease is at least one protease selected by proteases produced by microorganisms belonging to the genus *Aspergillus*, *Saccharomyces*, or *Bacillus*.
3. The method for assaying the presence and/or amount of a glycosylated protein according to claim 1, wherein the glycosylated peptide is an  $\alpha$ -glycosylated peptide.
4. The method for assaying the presence and/or amount of a glycosylated protein according to claim 3, wherein a peptide portion of the  $\alpha$ -glycosylated peptide is a short chain peptide having 2 to 6 amino acids.
5. The method for assaying the presence and/or amount of a glycosylated protein according to claim 3, wherein the  $\alpha$ -glycosylated peptide is fructosyl valyl histidine.
6. The method for assaying the presence and/or amount of a glycosylated protein according to claim 1, wherein the product to be assayed is hydrogen peroxide.
7. A method for assaying the presence and/or amount of a glycosylated protein in a sample, wherein the sample is treated with protease and the presence or absence, and/or amount of liberation of fructosyl valyl histidine is then assayed by HPLC.
8. A method for assaying the presence and/or amount of a glycosylated peptide in a sample, wherein the sample is treated with an oxidase having an activity to produce hydrogen peroxide upon reacting with the glycosylated peptide to assay the presence and/or amount of a generated product or consumed substance by said reaction.
9. A reagent kit for assaying a glycosylated protein in a sample, comprising the

following components:

- (i) protease;
- (ii) an oxidase having an activity to produce hydrogen peroxide by reacting with a glycatcd peptide; and
- (iii) a reagent for assaying hydrogen peroxide.

10. The reagent kit for assaying a glycatcd protein in a sample according to claim 9, wherein the glycatcd peptide is an  $\alpha$ -glycatcd peptide.

11. The reagent kit for assaying a glycatcd protein in a sample according to claim 10, wherein a peptide portion of the  $\alpha$ -glycatcd peptide is a short chain peptide having 2 to 6 amino acids.

12. The reagent kit for assaying a glycatcd protein in a sample according to claim 10, wherein the  $\alpha$ -glycatcd peptide is fructosyl valyl histidine.